

Dosage Calculation Worksheet #4

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- 1.** Ordered is flucloxacillin 250mg IM. Available is 1 G in 10 mL. How much should the nurse administer in mL?

$$1 \text{ g} = 1000 \text{ mg}$$

$$250\text{mg} / 1000\text{mg} \times 10 = \mathbf{2.5\text{mL}}$$

- 2.** Order: Administer 160 mg IV. Available is 100 mg/2 mL. How much should the nurse administer in mL?

$$160 \text{ mg} / 100 \text{ mg} \times 2\text{mL} = \mathbf{3.2 \text{ mL}}$$

- 3.** Azulfidine 1.5 g has been ordered every 12 hrs. Available are 500mg tablets. How many tablets should the nurse administer per day?

$$500 \text{ mg} = 0.5 \text{ g}$$

$$1.5 \text{ g} / 0.5 \text{ g} = 3 \text{ tablets every 12 hours}$$

$$3 \times 2 = \mathbf{6 \text{ tablets per day}}$$

- 4.** Ergotrate maleate 200 mcg is ordered po daily. Available is 0.2 mg. How many tablets should the nurse administer?

$$0.2 \text{ mg} = 200 \text{ mcg}$$

$$200\text{mcg} / 200\text{mcg} = \mathbf{1 \text{ tablet}}$$

- 5.** From 0700 to 1900 the nurse calculates the patient's total intravenous fluid intake as ? milliliters. An IV is infusing at 50 mL/hour. At 0900 the patient will receive IVPB of 125 mL for 30 minutes. What is the total amount in mL the patient will receive during this time?

$$0700 \text{ to } 1900 \text{ is } 12 \text{ hours}$$

$$12 \text{ hours} - 30 \text{ min} = 11.5 \text{ hours}$$

$$11.5 \text{ hours} \times 50\text{mL} = 575\text{mL}$$

$$575\text{mL} + 125\text{mL} = \mathbf{700 \text{ mL}}$$

- 6.** Solumedrol 1.5 mg/kg is ordered for a child weighing 42 lb. Solumedrol is available as 75 mg / 1 mL is available. How many mL must the nurse administer?

$$42\text{lb} = 19.09\text{kg}$$

$$1.5\text{mg} \times 19.09\text{kg} = 28.635\text{mg/kg}$$

$$28.635 / 75\text{mg} \times 1\text{mL} = \mathbf{0.4\text{ mL}}$$

7. Give patient 17.1 mg of dopamine in 223 mL of D5W to be infused at a rate of 17,221 mcg/hr. Calculate the flow rate in mL/hr.

$$17,221\text{mcg} / 1000 = 17.221\text{mg}$$

$$17.221\text{mg} / 17.1 \times 223 = \mathbf{224.6\text{ mL/hr}}$$

8. Calculate the IV flow rate for 0.2 L of D5W IV over 462 min. Infusion set has drop factor of 59 gtts/mL. What is the IV flow rate in gtts/min?

$$0.2\text{ L} = 4,000\text{gtts}$$

$$59\text{ gtts} / 4,000\text{gtts} \times 462\text{ min} = \mathbf{7\text{ gtts/min}}$$

9. Ordered Lasix 24 g IV push now. Available: 22,000,000 mcg in 12 mL. How much will the nurse draw up?

$$22,000,000 / 1000 = 22,000\text{ g}$$

$$24\text{g} / 22,000\text{g} \times 12\text{mL} = \mathbf{0.01\text{ mL}}$$

10. Calculate the IV flow rate for 392 mL of D5W IV over 582 min. Infusion set has drop factor of 74 gtts/mL. What is the IV flow rate in gtts/min?

$$74\text{gtts} \times 392\text{mL} / 582\text{min} = \mathbf{50\text{ gtts/min}}$$

11. From 0700 to 1800 the nurse calculates the patient's total intravenous fluid intake as milliliters. An IV is infusing at 100 mL/hour. At 0900 and 1500, the patient will receive IVPB of 75 mL for 30 minutes. What is the total amount the patient will receive during this time?

$$0700\text{ to }1800 = 11\text{ hours}$$

$$11\text{ hours} - 1\text{ hour} = 10\text{ hours}$$

$$10\text{ hours} \times 100\text{ mL} = 1000\text{mL}$$

$$75 + 75 = 150\text{ mL}$$

$$1000\text{mL} + 150\text{mL} = \mathbf{1150\text{mL}}$$

- 12.** Ordered 7 g of Amoxicillin. Amoxicillin is available as 0.016 kg per 20 mL. How much will the nurse draw up?

$$0.016\text{kg} = 16\text{ g}$$

$$7\text{g} / 16\text{g} \times 20\text{mL} = \mathbf{8.75\text{mL}}$$

- 13.** Potassium chloride is available as 0.016 kg per tablet. Potassium Chloride (K-Dur), 24,000,000 mcg, is ordered. How many tablets would the nurse administer?

$$0.016 = 16,000,000\text{mcg}$$

$$24,000,000 / 16,000,000 = \mathbf{1.5\text{ tablets}}$$

- 14.** Aggrastat at 23.8 mg in 129 mL is to be infused at 3 mcg/kg/hr in a patient who weighs 82 kg. At what flow rate in mL/hr will you set the pump?

$$23.8\text{mg} = 23800\text{ mcg}$$

$$3\text{mcg} \times 82\text{kg} = 246\text{ mcg/kg/hr}$$

$$246\text{ mcg/hr} / 23800\text{mcg} \times 129\text{mL} = \mathbf{1.3\text{ mL/hr}}$$

- 15.** Administer 0.06 g of codeine po now. Available are 30 mg tablets. How many tablets should the nurse administer?

$$30\text{mg} = 0.03\text{ g}$$

$$0.06\text{g} / 0.03\text{g} = \mathbf{2\text{ tablets}}$$